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The Author Index lists papers under the first-named author of jointly written papers; cross-references to the first author are provided for the other authors. Collections of papers for which an editor (or editors) is named and which are reviewed as a whole are listed under the editor's name, e.g.: Smith, J., editor. A special listing is also provided under Séminaires. Papers or books for which no author is named are listed under Anonymous. Russian authors are listed under the transliterated spelling of Russian in use by Mathematical Reviews (see p. 1120) unless they occur in the papers reviewed only under some other transliterated spelling; in the latter case a cross-reference is provided if it seems necessary. Surnames consisting of more than one part (e.g., von der Heide, de La Rivière, etc.) are listed under the first capital letter. The titles themselves are generally abbreviated; papers with similar titles are frequently combined under one title, the different papers being indicated by Roman numerals. In this index, the sign * is used to denote a non-periodical publication reviewed in its entirety.

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ABBREVIATIONS OF NAMES OF JOURNALS: ADDENDA

This list supplements that given in volume 17, pp. 1423–1435. It gives the form of reference used in MATHEMATICAL REVIEWS and the complete title (when it differs from this form); the place of publication and other pertinent information are given in parentheses when desirable for clarity. Scripts other than Roman, Cyrillic and Greek are disregarded unless no title in one of these three appears.

Abh. Deutsch. Akad. Wiss. Berlin. Kl. Chem. Geol. Biol. Abhandlungen der Deutschen Akademie der Wissenschaften zu Berlin. Klasse für Chemie, Geologie und Biologie.

Acad. R. P. Romîne. Fil. Cluj. Stud. Cerc. Mat. Fiz. Academia Republicii Populare Romîne. Filiala Cluj. Studii şi Cercetări de Matematică şi Fizică. (Cluj.)

Acad. R. P. Romîne. Fil. Iaşi. Stud. Cerc. Şti. Biol. Şti. Agric. Academia Republicii Populare Romîne. Filiala Iaşi. Studii şi Cercetari Ştiinţifice. Biologie şi Ştiinţe Agricole. (Iaşi.)

Acad. R. P. Romîne. Fil. Iaşi. Stud. Cerc. Şti. Chim. Academia Republicii Populare Romîne. Filiala Iaşi. Studii şi Cercetari Ştiinţifice. Chimie. (Iaşi.)

Acad. R. P. Romîne. Fil. Iaşi. Stud. Cerc. Şti. Filol. Academia Republicii Populare Romîne. Filiala Iaşi. Studii şi Cercetari Ştiinţifice. Filologie. (Iaşi.)

Acad. R. P. Romîne. Fil. Iaşi. Stud. Cerc. Şti. Fiz. Şti. Tehn. Academia Republicii Populare Romîne. Filiala Iaşi. Studii şi Cercetari Ştiinţifice. Fizică şi Ştiinţe Tehnice. (Iaşi.)

Acad. R. P. Romîne. Fil. Iaşi. Stud. Cerc. Şti. Ist. Academia Republicii Populare Romîne. Filiala Iaşi. Studii şi Cercetari Ştiinţifice. Istorie. (Iaşi.)

Acad. R. P. Romîne. Stud. Cerc. Mec. Apl. Academia Republicii Populare Romîne. Institutul de Mecanică Aplicată "Traian Vuia". Studii şi Cercetari de Mecanică Aplicată. (Bucharest.)

Acta. Fac. Nat. Univ. Comenian. Math. Acta Facultatis Rerum Naturalium Universitatis Comenianae. (Bratislava.)

Advancement in Math. Advancement in Mathematics. (Peking.)

Amer. Statist. The American statistician. (Washington, D. C.)

An. Şti. Univ. "Al. I. Cuza" Iaşi. (N. S.) Secţ. II. Analele Ştiinţifice ale Universităţii "Al. I. Cuza" din Iaşi. (Seria Nouă). Secţiunea II. (Ştiinţe Naturale).

An. Univ. "C. I. Parhon" Bucureşti. Ser. Şti. Nat. Analele Universităţii "C. I. Parhon" Bucureşti. Seria Ştiinţelor Naturii. (Bucharest.)

Ann. Acad. Sci. Fenn. Ser. A. VI. Suomalaisen Tiedeakatemian Toimituksia. Sarja A. Annales Academiae Scientiarum Fennicae. Series A. VI. Physica. (Helsinki.)

Ann. Physics. Annals of Physics. (New York.)

Ann. of Sci. Annals of Science. (London.)

Ann. Univ. Lyon. Sect. B. Annales de l'Université de Lyon. Section B.

Anuário Obs. S. Paulo. Universidade de São Paulo. Instituto astronômico e geofísico. Anuário do observatório de S. Paulo.

Arch. Rational Mech. Anal. Archive for rational mechanics and analysis. (Berlin.)

Atti Soc. Peloritana Sci. Fis. Mat. Nat. Atti della Società Peloritana di Scienze Fisiche Matematiche e Naturali. (Messina.)

Bonn. Math. Schr. Bonner Mathematische Schriften. (Bonn.)

Bul. Inst. Politehn. Bucureşti. Buletinul Institutului Politehnic Bucureşti. (Bucharest.)

Bull. Math. Soc. Sci. Math. Phys. R. P. Roumaine. Bulletin Mathématique de la Société des Sciences Mathématiques et Physiques de la République Populaire Roumaine. (Bucharest.)

Bull. Soc. Sci. Afrique Nord. Sci. Math. Phys. Bulletin de la Société des Sciences de L'Afrique du Nord. Sciences Mathématiques et Physiques. (Algiers.)

Documentation Bulletin of the National Research Centre. Documentation Bulletin of the National Research Centre. Abstracts of scientific and technical papers. (Cairo. Formerly: *Bulletin of the Scientific and Technical Documentation Centre.*)

Econ. Proc. Roy. Dublin Soc. The Economic Proceedings of the Royal Dublin Society. (Dublin.)

Eng. e Quím. Engenharia e Química. (Rio de Janeiro.)

Illinois J. Math. Illinois Journal of Mathematics. (Urbana.)

Information and Control. (New York.)

Izv. Akad. Nauk Armyan. SSR. Ser. Fiz.-Mat. Nauk. Izvestiya Akademii Nauk Armyanskoĭ SSR. Seriya Fiziko-Matematičeskih Nauk. (Erevan. Formerly: *Akad. Nauk Armyan. SSR. Izvestiya Fiz.-Mat. Estest. Teh. Nauki.*)

Izv. Akad. Nauk Armyan. SSR. Ser. Tehn. Nauk. Izvestiya Akademii Nauk Armyanskoĭ SSR. Seriya Tehničeskih Nauk. (Erevan. Formerly: *Akad. Nauk Armyan. SSR. Izvestiya Fiz.-Mat. Estest. Teh. Nauki.*)

Izv. Akad. Nauk Èston. SSR. Ser. Tehn. Fiz.-Mat. Nauk. Izvestiya Akademii Nauk Èstonskoĭ SSR. Seriya Tehničeskih i Fiziko-Matematičeskih Nauk. (Tallin. Title also in Estonian.)

J. Fac. Sci. Niigata Univ. Ser. I. Journal of the Faculty of Science. Niigata University. Series I. Mathematics, Physics and Chemistry. (Niigata.)

Janus. Janus. Revue internationale de l'histoire des sciences, de la médecine, de la pharmacie et de la technique. (Leiden.)

Kungl. Svenska Vetenskapsakad. Handl. Kungl. Svenska Vetenskapsakademiens Handlingar. (Stockholm.)

Kyungpook Univ. Thesis Collect. Kyungpook University Theses Collection. (Taegu.)

Math. Centrum Amsterdam. Afd. Toegepaste Wisk. Mathematisch Centrum Amsterdam. Afd. Toegepaste Wiskunde.

Math. Centrum Amsterdam. Rekenafdeling. Mathematisch Centrum Amsterdam. Rekenafdeling.

Mem. Osaka Univ. Lib. Arts Ed. B. Memoirs of the Osaka University of the Liberal Arts and Education. (Osaka. Title also in Japanese.)

Nachr. Akad. Wiss. Göttingen. Math.-Phys. Kl. IIb. Nachrichten der Akademie der Wissenschaften in Göttingen. Mathematisch-Physikalische Klasse. IIb. Biologisch-Physiologisch-Chemische Abteilung.

Nat. Sci. Rep. Lib. Arts Fac. Shizuoka Univ. Natural Science Reports of the Liberal Arts Faculty. Shizuoka University. (Shizuoka.)

Navigation. Navigation. Journal of the Institute of Navigation. (Los Angeles.)

Nederl. Akad. Wetensch. Proc. Ser. C. Koninklijke Nederlandse Akademie van Wetenschappen. Proceedings. Series C. Biological and Medical Sciences. (Amsterdam.)

Nuclear Sci. Abstracts. Nuclear Science Abstracts. (Oak Ridge.)

Ordnance Comput. Res. Rep. Ordnance Computer Research Report. (Aberdeen Proving Ground.)

Period. Polytech. Periodica Polytechnica. (Budapest.)

Phys. Fluids. The Physics of Fluids. (New York.)

Pokroky Mat. Fys. Astr. Pokroky Matematiky Fysiky a Astronomie. (Prague.)

Proc. Indiana Acad. Sci. Proceedings of the Indiana Academy of Science. (Indianapolis.)

Proc. Univ. Durham Philos. Soc. Proceedings of the University of Durham Philosophical Society. (Newcastle upon Tyne.)

Rev. Méc. Appl. Académie de la République Populaire Roumaine. Institut de Mécanique Appliquée. Revue de Mécanique Appliquée. (Bucharest.)

Rev. Polish Acad. Sci. The Review of the Polish Academy of Sciences. (Warsaw.)

S.-B. Deutsch. Akad. Wiss. Berlin. Kl. Chem. Geol. Biol. Sitzungsberichte der Deutschen Akademie der Wissenschaften zu Berlin. Klasse für Chemie, Geologie und Biologie.

SRI J. SRI Journal. (Menlo Park.)

Schr. Forschungsinst. Math. Schriftenreihe des Forschungsinstituts für Mathematik bei der Deutschen Akademie der Wissenschaften zu Berlin.

Sci. Record. Science Record. (Peking. Title also in Chinese.)

Soviet Abstracts. Mechanics. (London.)

Stvdia. Rev. Univ. Atlantico. Stvdia. Revista de la Universidad del Atlantico. (Barranquilla.)

Trans. I.R.E. Transactions of the I.R.E. (Cambridge.)

Trav. Soc. Sci. Lett. Wrocław. Ser. B. Travaux de la Société des Sciences et des Lettres de Wrocław. Seria B. (Title also in Polish)

Trudy Gor'kov. Issled. Fiz.-Tehn. Inst. Radiofiz. Fak. GGU. Uč. Zap. Ministerstvo Vyssego Obrazovaniya SSSR. Gor'kovskiĭ Gosudarstvennyĭ Universitet. Trudy Gor'kovskogo Issledovatel'skogo Fiziko-Tehničeskogo Instituta i Radiofizičeskogo Fakul'teta GGU. Učenye Zapiski. Seriya Fizičeskaya. (Moscow.)

Trudy Gos. Okeanograf. Inst. Trudy Gosudarstvennogo Okeanografičeskogo Instituta. (Moscow.)

Uč. Zap. Gor'kov. Gos. Univ. Ministerstvo Vysšego Obrazovaniya SSSR. Radiofizičeskiĭ Fakul'tet Gor'kovskogo Gosudarstvennogo Universiteta. Gor'kovskiĭ Issledovatel'skiĭ Fiziko-Tehničeskiĭ Institut. Učenye Zapiski Gor'kovskogo Gosudarstvennogo Universiteta. Seriya Fizičeskaya. (Moscow.)

Uman. Ped. Inst. Nauk. Zap. Ministerstvo Osviti URSR Umans'kiĭ Pedagogičniĭ Institut. Naukovi Zapiski. (Kiev.)

Univ. Beogradu. Godišnjak Filozof. Fak. Novom Sadu. Univerzitet u Beogradu. Godišnjak Filozofskog Fakulteta u Novom Sadu. (Novi Sad.)

Univ. Beogradu. Zb. Mat. Problem. Univerzitet u Beogradu. Zbornik Matematičkih Problema. Sa prilozima i numerickim tablicama. (Belgrade.)

V. D. I. Z. Zeitschrift des Vereines Deutscher Ingenieure. (Düsseldorf. Formerly: *Z. Verein. Deutsch. Ing.*)

Vestnik. Moskov. Univ. Ser. Biol. Počvoved. Geol. Geograf. Vestnik Moskovskogo Universiteta. Seriya Biologii, Počvovedeniya, Geologii, Geografii. (Moscow.)

Voprosy Ist. Estest. i Tehn. Akademiya Nauk SSSR. Voprosy Istorii Estestvoznaniya i Tehniki. (Moscow.)

Voronež. Gos. Univ. Trudy Sem. Funkcional. Anal. Ministerstvo Vyššego Obrazovaniya SSSR. Voronežskiĭ Gosudarstvennyĭ Universitet. Trudy Seminara po Funkcional'nomu Analizu. (Voronež.)

Wisk. Opgaven. Wiskundige Opgaven met de Oplossingen. (Groningen.)

Wiss. Z. Hochsch. Schwermaschinenbau Magdeburg. Wissenschaftliche Zeitschrift der Hochschule für Schwermaschinenbau, Magdeburg.

ERRATA AND ADDENDA

VOLUME 15

P. 737: **Massera and Schäffer.**
In line 13 of the review read "the family of all log $f'(t)\ldots$" for "the family of all $f'(t)\ldots$"

P. 754: **Valcovici.**
The reviewer apologizes for misinterpreting the author's citation of a reference as an attribution.

VOLUME 16

P. 661: **Harrop.**
The reviewer wishes to point out that the remark in parentheses in this review should be omitted, as being due to a misunderstanding on her part. The theorem is correct as stated in the paper. The reviewer is grateful to R. Harrop for pointing out the error.

P. 1031: **Baher.**
The author's name is Vaher, not Baher.

VOLUME 17

P. 75: **Schäffer.**
The author, with the reviewer's concurrence, wishes to make the following remark.
The reviewer states: "In addition, there are some results on convex covering sets with minimal perimeter." Actually, these results concern convex 'boundary-minimal' sets, i.e., covering sets which lose their covering property if any neighbourhood of any boundary point is deleted. The problem of covering sets with minimal perimeter seems to remain open. (Letter from the author.)

P. 816: **Goodstein.**
The reviewer wishes to change his review as follows. "The author intended a different formulation of 'non-constructiveness': For any of the usual systems R^* of recursive analysis there exists a function f (depending on R^*) which can be proved in R^* to satisfy the conditions RT, but cannot be proved in R^* to satisfy IRT, though the latter can be proved in some other system of recursive analysis. The non-constructiveness depends here on the impossibility of proving IRT for f in the particular system R^* in contrast to the formulation given in the review which is independent of restrictions on the methods of proof."

P. 1033: **Bogolyubov and Sirkov.**
In the title read "Lee" for "Lie".

P. 1037: **The collected works of George Abram Miller.**
In line 3 of the review read "Brahana" for "Brahama".

P. 1057: **Knödel.**
In the last line of the review the dash should be replaced by a prime.

P. 1066: **Haupt, Aumann und Pauc.**
In line 18 of the review read "Burkhill" for "Birkhill".

P. 1144: **Caldirola.**
The title of this review was inadvertently combined with the text of the review printed under Corinaldesi on p. 1165 and vice versa.

P. 1165: **Corinaldesi.**
See the remark above under Caldirola.

P. 1166: **Fulton and Newton.**
The left hand side of the displayed equation should read $T(k^2)\equiv[F^T(k)F(-k)]^{-1}$.

P. 1177: **Kolibiar.**
Throughout the review the multiplication sign in symbols like $a\times b$ is to be replaced by the letter x, as axb.

P. 1228: **Dieudonné.**
In the last line read E for R.

VOLUME 18

P. 5: **Gáspár.**
The reviewer wishes to add the following sentence to his review. "It should be stated that the principal result consists not in showing that the determinant has the three properties described, but rather in showing that these three properties characterize the determinant."

P. 7: **Jones and Lumer.**
In the title read "Publ. Inst. Mat. Estadist." for "Publ. Didact. Inst. Mat. Estadist."

P. 18: **Selberg.**
In line 6 of the review read $H(x)/\sqrt{x}$ for $H(x)\sqrt{x}$.

P. 48: **Hosszú.**
The statement that "A. Kuwagaki completely determined the character of F" should be replaced by: "A. Kuwagaki showed that every solution F of the functional equation belongs to one of four classes (see MR **15**, 324), each of which contains solutions F." In the last sentence of the review the word "corresponding" should be deleted.

P. 211: **Massera.**
In the title read "Publ. Inst. Mat. Estadist." for "Publ. Didact. Inst. Mat. Estadist."

P. 279: **Whittaker.**
In line 4 in the right hand member of the equation read $x-y$ for $x-z$; and in line 7 read $v-w$ for $v-y$.

P. 330: **Bellman.**
In the second displayed formula read
$$4[a^{-\frac{1}{2}}b^{-\frac{1}{2}}A^{\frac{1}{2}}B^{\frac{1}{2}}+a^{\frac{1}{2}}b^{\frac{1}{2}}A^{-\frac{1}{2}}B^{-\frac{1}{2}}]^2$$
for the first factor on the right hand side.

P. 419: **Salzer.**
In line 25 of the review read "below" for "above".

P. 468: **Bellman.**
In the line marked (*) read $\sum k_i$ as an index in the numerator instead of $\sum k_1$.

P. 490: **Wallace.**
For "I_a" in line 6 read "$I(a)$" and for "$a\epsilon E\setminus K$" in line 11 read "$e\epsilon E\setminus K$".

P. 552: **Spector.**
In line 11 of the review read "there" for "three".

P. 553: **Blanuša.**
The titles and texts of this and the following review were inadvertently interchanged.

P. 553: **Devidé.**
See the remark above under Blanuša.

P. 572: **Saran.**
The author wishes this paper to be regarded as replaced by his earlier paper in Acta Math. **93** (1955), 293–312; MR **17**, 150.

P. 576: **Lehrer.**
In the title read "256–257" for "257–258".

P. 626: **Polkinghorne.**
In the title read "260–261" for "261–262".

P. 681: **Bellman.**
In the title read "257–259" for "258–260".

P. 681: **Palmer.**
In the title read "264" for "266".

P. 755: **Bodnărescu.**
The last sentence should read as follows.
"There are two angles $B_1A_1C_1$ and $B_1A_1C_1'$ or one angle $B_1A_1C_1$ (all equal to ω) respectively, according to whether the side A_1B_1 and the normal of the plane P form an angle larger or less than ω."

P. 771: **van der Waerden.**
The author has pointed out to the reviewer that, contrary to the implications of the review, the chapters were intentionally written to be (as far as possible) independent of one another, that he has not assumed a knowledge of Lebesgue integration or of matrix theory, and that he had intentionally omitted certain proofs, and so stated, if these proofs were readily available elsewhere. The author also wants to point out that the book is a logical unity, being based entirely upon the axioms given in the first chapter and on the fundamental notions developed in the first two chapters.

P. 774: **Ramakrishnan.**
In the title read 44 for 54.

TRANSLITERATION OF RUSSIAN

The transliteration of Russian frequently causes confusion because of the variety of systems in use. The table below presents several systems presently used by libraries or by abstracting journals, including Mathematical Reviews, which are likely to be consulted by mathematicians. The system adopted by Mathematical Reviews has been in use since the beginning of volume 7. Other Slavic languages using a Cyrillic alphabet are transliterated by some modification of the Russian transliteration; Serbian is transliterated according to a standard procedure into the equivalent Croatian. If the author's name already appears transliterated in the paper, this transliteration is used by Mathematical Reviews.

Russian Letter Cap.	Ital.	Mathematical Reviews	Zentralblatt für Mathematik	Bulletin Signalétique	Applied Mechanics Reviews	Science Abstracts	U. S. Library of Congress	Amer. Slavic & E. European Review
А	*а*	a	a	a	a	a	a	a
Б	*б*	b	b	b	b	b	b	b
В	*в*	v	v	v	v	v	v	v
Г	*г*	g	g	g	g	g	g	g
Д	*д*	d	d	d	d	d	d	d
Е	*е*	e	e	e	e	e	e	e
Ё	*ё*	ë	e	ë	ë	ë	ë	ë
Ж	*ж*	ž	ž	zh	zh	zh	z͡h	ž
З	*з*	z	z	z	z	z	z	z
И	*и*	i	i	i	i	i	i	i
Й	*й*	ĭ	j	j	ĭ	ĭ	ĭ	j
К	*к*	k	k	k	k	k	k	k
Л	*л*	l	l	l	l	l	l	l
М	*м*	m	m	m	m	m	m	m
Н	*н*	n	n	n	n	n	n	n
О	*о*	o	o	o	o	o	o	o
П	*п*	p	p	p	p	p	p	p
Р	*р*	r	r	r	r	r	r	r
С	*с*	s	s	s	s	s	s	s
Т	*т*	t	t	t	t	t	t	t
У	*у*	u	u	u	u	u	u	u
Ф	*ф*	f	f	f	f	f	f	f
Х	*х*	h	ch	kh	kh	kh	k͡h	kh
Ц	*ц*	c	c	c	ts	ts	t͡s	c
Ч	*ч*	č	č	ch	ch	ch	c͡h	č
Ш	*ш*	š	š	sh	sh	sh	s͡h	š
Щ	*щ*	šč	šč	shch	shch	shch	s͡hch	šč
Ъ	*ъ*	″			″	'	″	'
Ы	*ы*	y	y	y	ĭ	ŷ	y	y
Ь	*ь*	′	′	′	′	'	′	′
Э	*э*	è	ė	e	é	é	é	è
Ю	*ю*	yu	ju	ju	yu	yu	ĭu	ju
Я	*я*	ya	ja	ja	ya	ya	ĭa	ja